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INTERNATIONAL SEARCH REPORT

 International application No.
 PCT/JP03/01511

 A. CLASSIFICATION OF SUBJECT MATTER
 Int.Cl⁷ G02B6/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)
 Int.Cl⁷ G02B6/12

 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 8-190026 A (Nippon Telegraph And Telephone Corp.), 23 July, 1996 (23.07.96), Par. No. [0031]; Fig. 10 (Family: none)	1-17
Y	JP 5-232322 A (The Furukawa Electric Co., Ltd.), 10 September, 1993 (10.09.93), Fig. 3 (Family: none)	1-17
Y	JP 11-72635 A (Kyocera Corp.), 16 March, 1999 (16.03.99), Fig. 1 & US 6118915 A & GB 2329259 A & FR 2765348 A	1-17

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&" document member of the same patent family</p>
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 Date of the actual completion of the international search
 05 March, 2003 (05.03.03)

 Date of mailing of the international search report
 18 March, 2003 (18.03.03)

 Name and mailing address of the ISA/
 Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2000-180646 A (Fujitsu Ltd.), 30 June, 2000 (30.06.00), Figs. 11, 13, 27, 29, 32 (Family: none)	1-17
Y	JP 2002-243960 A (NTT Advanced Technology Corp.), 28 August, 2002 (28.08.02), Figs. 1, 3, 4 (Family: none)	16-17
A	JP 6-174954 A (Sumitomo Electric Industries, Ltd.), 24 June, 1994 (24.06.94), & US 5438640 A & EP 634677 A1	1-17
A	GB 2300726 A (The Furukawa Electric Co., Ltd.), 13 November, 1996 (13.11.96), & US 5764825 A & JP 8-304664 A	1-17
A	JP 3-240006 A (Sumitomo Electric Industries, Ltd.), 25 October, 1991 (25.10.91), (Family: none)	1-17